What is claimed is:

1. A cathode ray tube comprising:

a panel having an effective screen;

a funnel connected to the panel; and

an electron gun to generate electron beams; wherein

said effective screen has a horizontal and vertical ratio of 16:9; and

said panel satisfies a condition:

$[(\triangle y/d)\times 100] \leq 5.65$

wherein d is length from a central point G to a diagonal vertex E of said effective screen, and $\triangle y$ is length from a point H to an intersection point of the outline of the panel and the shorter axis Y, the point H being intersection of shorter axis Y and a longer side of said effective screen.

2. The cathode ray tube of claim 1, wherein

said panel further satisties a condition:

$[(\triangle y/Y)\times 100] \leq 11.50$

wherein Y is length from the central point G of said effective screen to the point H.

3. The cathode ray tube of claim 1, wherein

said panel further satisties a condition:

$[(\triangle x/d)\times 100] \leq 2.05$

wherein $\triangle x$ is length from a point F to an intersection point of the outline of the panel and the longer axis X, wherein the point F is intersection of longer axis X and a shorter side of said effective screen.

4. The cathode ray tube of claim 3, wherein

said panel further satisties a condition:

$[(\triangle x/X)\times 100] \leq 3.5$

wherein X is length from the central point G of said effective screen to the point F.

5. The cathode ray tube of claim 4, wherein

said panel further satisties a condition:

$[(\triangle y/Y)\times 100] \leq 11.50.$

6. The cathode ray tube of claim 1, wherein

outer surface of said panel is substantially flat.

7. A cathode ray tube comprising:

a panel having an effective screen;

a funnel connected to the panel; and

an electron gun to generate electron beams; wherein

said effective screen has a horizontal and vertical ratio of of 4:3; and

said panel satisfies a condition:

$[(\triangle y/d)\times 100] \leq 5.05$

wherein d is length from a central point G to a diagonal vertex E of said effective screen, and $\triangle y$ is length from a point H to an intersection point of the outline of the panel and the shorter axis Y, the point H being intersection of shorter axis Y and a longer side of said effective screen.

8. The cathode ray tube of claim 7, wherein

said panel further satisties a condition:

$[(\triangle y/Y)\times 100] \leq 9.0$

wherein Y is length from the central point G of said effective screen to the point H.

9. The cathode ray tube of claim 7, wherein

said panel further satisties a condition:

$[(\triangle x/d)\times 100] \leq 2.95$

wherein $\triangle x$ is length from a point F to an intersection point of the outline of the panel and the longer axis X, wherein the point F is intersection of longer axis X and a shorter side of said effective screen.

10. The cathode ray tube of claim 9, wherein

said panel further satisties a condition:

$[(\triangle x/X)\times 100] \leq 3.5$

wherein X is length from the central point G of said effective screen to the point F.

11. The cathode ray tube of claim 10, wherein

said panel further satisties a condition:

$[(\triangle y/Y)\times 100] \leq 9.0$

12. The cathode ray tube of claim 7, wherein

outer surface of said panel is substantially flat.